

Patent Abstracts of Japan

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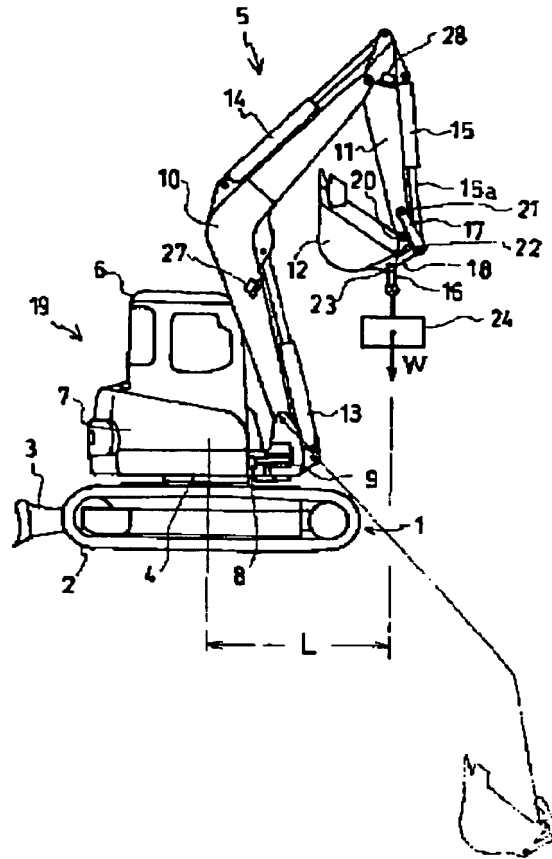
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TITLE : WORKING ANGLE CONTROLLER OF
CRANE SPECIFICATION TYPE
BACK-HOE



ABSTRACT : PROBLEM TO BE SOLVED: To easily mount a dielectric fluid type dip sensor without limiting a mounting position thereof to a boom or an arm, reduce mounting manhours or mounting hours, also facilitate the after-mounting, at the same time, carry out work even when the mounting position is beyond the limits of measurement by the dip sensor, carry out work equivalent to the conventional one, at the same time, raise an alarm to realize that rotation is near to the limit, eliminate unreasonable work to save maintenance and to also prolong the life thereof.

SOLUTION: In a crane specification type back-hoe mounting a hook 16 to the front end of an arm 11 to make it possible to lift a load up, dielectric fluid type dip sensors 27 and 28 are respectively mounted to boom 10 and arm 11 to detect angles, and the angles are inputted to a controlling circuit. Then, when the arm is rotated beyond the limits of measurement by the dip sensors, an alarm is raised to indicate the value, and control is made at the value of the maximum angle.

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